

Appl. No. 09/895,656
Amdt. dated 11/07/2005
Reply to Office Action of 08/05/2005

BEST AVAILABLE COPY**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:**1. (previously presented)**

A system comprising an ATM destination transmission device, the ATM destination transmission device having:

- a destination hold circuit to hold determined selector identification;
- a first destination receive circuit to receive a setup message having first selector content and establish a connection on an ATM network;
- a second destination receive circuit to receive on the connection a first data message having a first data from an ATM source transmission device;
- a destination read circuit coupled to the first destination receive circuit and the destination hold circuit, the destination read circuit to read the first selector content and compare the first selector content to the selector identification; and
- a destination compose circuit coupled to the second destination receive circuit and the destination read circuit, the destination compose circuit to compose a second data message having a second data based on the first data and an address of the ATM source transmission device and to send the second data message if the first selector content corresponds to the determined selector identification.

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2. (previously presented)

The system defined in claim 1 wherein at least a portion of the second data is the first data.

3. (previously presented)

The system defined in claim 1 wherein the second data is the first data.

4. (previously presented)

The system defined in claim 1 wherein the ATM destination transmission device includes a processor to respond to a coupled stored program, and the processor responding to the stored program includes at least one of the first destination receive circuit, the second destination receive circuit, the destination read circuit, and the destination compose circuit.

5. (previously presented)

The system defined in claim 1 further including an ATM source transmission device, the ATM source transmission device having:

a first compose circuit coupled to the first destination receive circuit, the first compose circuit to compose the setup message having the first selector content;

a second compose circuit coupled to the second destination receive circuit, the second compose circuit to compose the first data message and to transmit the first data message to the second compose circuit; and

a compare circuit coupled to the second compose circuit and to the destination compose circuit, the compare circuit to compare the first data to the second data if the ATM source transmission device receives the second data message.

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6. (previously presented)

The system defined in claim 5 wherein the ATM source transmission device includes a processor to respond to a coupled stored program, and the processor responding to the stored program includes at least one of the first compose circuit, the second compose circuit, the transmit circuit, and the compare circuit.

7. (previously presented)

The system defined in claim 5 wherein the ATM source transmission device includes a trace circuit coupled to the destination compose circuit, the trace circuit to receive an information element characterized by one of a trace information element containing hop information and a pathtrace information element containing pathtrace information, and to transmit at least a portion of the information element to a user interface.

8. (previously presented)

The system defined in claim 5 wherein the ATM source transmission device includes a trace circuit coupled to the destination compose circuit, the trace circuit to receive an information element characterized by one of a trace information element containing hop information and a pathtrace information element containing pathtrace information, and to format at least a portion of the information element for at least one of displaying the portion of information on a display terminal and printing the portion of information on a printing device.

9. (currently amended)

A method comprising:

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a ATM source transmission device sending a setup message having an address selector set to a determined value to cause a ATM destination transmission device to send a first confirming data message in response to receiving the first data message to establish an ATM connection between the ATM source transmission device and the ATM destination transmission device ~~data, device,~~ and to reflect a subsequent data message on the connection;

the ATM source transmission device establishing a connection between the ATM source transmission device and the ATM destination transmission device in response to the ATM destination transmission device receiving the setup message; and

the ATM source transmission device sending a first data message to the ATM destination transmission device after the ATM source transmission device establishes the connection, the first data message having a first data.

10. (currently amended)

The method defined in claim 9

wherein the ATM source transmission device sending the setup message includes the ATM source transmission device attaching a trace information element to the setup message;

the establishing a connection includes the ATM source transmission device receiving the ~~received~~ a received trace response; and

the ATM source transmission device sending at least a portion of the received trace response to a user interface.

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11. (previously presented)

The method defined in claim 9 further including

the ATM destination device receiving the setup message;

the ATM destination device reading the address selector;

the ATM destination transmission device receiving the first data message;

if the address selector byte corresponds to the determined value, the ATM destination transmission device sending a second data message to the ATM source transmission device having a second data that includes at least a portion of the first data.

12. (previously presented)

The method defined in claim 11 further including

the ATM source transmission device receiving the second data message; and

the ATM source transmission device comparing the first data to the second data.

13. (previously presented)

A method comprising:

an ATM destination transmission device receiving a setup message having a first address selector from an ATM source transmission device;

establishing a connection between the ATM destination transmission device and the ATM source transmission device;

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the ATM destination transmission device receiving a first data message having a first data on the connection;

the ATM destination transmission device comparing the first address selector to a determined address selector of the ATM destination transmission device and if the first address selector corresponds to the determined address selector, the ATM destination transmission device composing and sending a second data message to the ATM source transmission device having at least a portion of the sent second data corresponding to the first data.

14. (previously presented)

The method defined in claim 13 further including:

the ATM source transmission device composing the setup message;

the ATM source transmission device composing the first data message to have the first data;

the ATM source transmission device sending the first data message wherein the first data message coincides with the first data message of claim 13.

15. (previously presented)

The method defined in claim 13 further including:

the ATM source transmission device receiving the sent second data message; and the ATM source transmission device comparing the sent second data to the first data.

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16. (previously presented)

A machine-readable medium that provides instructions which, when executed by at least one processor on an ATM destination transmission device, cause said processor to perform operations comprising

receiving a first ATM setup message from a ATM source transmission device, the first ATM setup message having a destination address, the destination address having a first selector content;

establishing a connection between the ATM destination transmission device and the ATM source transmission device;

reading the first selector content and comparing the first selector content to a selector identification;

receiving a first data message on the connection, the first data message having a first data; and

if the selector content corresponds to the selector identification, composing a second data message having a second data based on the first data and causing the ATM destination transmission device to send the second data message on the connection.

17. (previously presented)

The operations defined in claim 16 wherein the second data is one of at least a portion of the first data and an algorithmically transformed data based on at least a portion of the first data.

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18. (previously presented)

The operations defined in claim 16 wherein the second data is the first data.

19. (previously presented)

The system defined in claim 5 wherein the ATM destination transmission device includes a circuit to receive one of a trace information element containing hop information and a pathtrace information element containing pathtrace information, and a circuit to transmit at least a portion of the hop information to a user interface.

20.-22. (cancelled)

23. (currently amended)

An ATM destination transmission device that includes:

~~first~~ means for holding determined destination device selector identification;

~~second~~ means for receiving a setup message having a first selector content and setting up a connection;

~~third~~ means for receiving on the connection a first data message having a first data from an ATM source transmission device;

~~fourth~~ means for the destination device reading the first selector content and comparing the first selector content to the selector identification; and

~~fifth~~ means for the destination device composing a second data message having a second data based on the first data and an address of the ATM source transmission device and

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scnding the second data message if the first selector content corresponds to the
determined selector identification.

24. (previously presented)

The ATM destination transmission device defined in claim 23 wherein at least a portion of
the second data is the first data.

25. (previously presented)

The ATM destination transmission device defined in claim 23 wherein the second data is the
first data.

26. (currently amended)

The ATM destination transmission device defined in claim 23 wherein the ATM
destination transmission device includes sixth means for responding to a coupled stored
program and the sixth means for responding to the stored program includes at least one of
the second means, the third means, the fourth means, and the fifth means. the means for
receiving the setup message, the means for receiving the first data message, the means for
reading the first selector content, and the means for composing the second data message.

27. (previously presented)

An ATM destination transmission device that includes

a first destination receive circuit to receive a setup message from an ATM source
transmission device and establish a connection with the ATM source transmission device;

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a destination hold circuit to store a selector identification for a service to reflect back to the ATM source transmission device at least a portion of a data transmitted by the ATM source transmission device if the setup message includes a selector code equivalent to the selector identification;

a second destination receive circuit to receive on the connection a first data message having a first data from an ATM source transmission device;

a destination read circuit to read the selector code and compare the selector code to the stored selector identification; and

a destination compose circuit to compose and to send to the ATM source transmission device a second data message having a second data based on the first data if the selector code is equivalent to the stored selector identification.

28. (previously presented)

The ATM destination transmission device defined in claim 27 wherein the second data is the first data.

29. (previously presented)

The ATM destination transmission device defined in claim 27 that includes a processor to respond to a coupled stored program, and the processor responding to the stored program includes at least one of the first destination receive circuit, the second destination receive circuit, the destination read circuit, and the destination compose circuit.

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